

attached to said endoprosthesis.

5. (original) The device according to claim 1, wherein said second sensing means is attached to said endoprosthesis.
6. (amended) The device according to claim 1, wherein said first sensing means is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.
7. (amended) The device according to claim 1, wherein said second sensing means is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.
8. (cancel)
9. (cancel)
10. (amended) A method for measuring a physiological parameter in a body, comprising the steps of:
  - a. chronically implanting an endoprosthesis within said body, said endoprosthesis defining an inner surface and an outer surface,
  - b. chronically implanting a first sensing means closer to said outer surface than to said inner surface,
  - c. chronically implanting a second sensing means closer to said inner surface than to said outer surface.

[transmitting data,  
providing a power source]
11. (original) The method of claim 10, wherein said physiological parameter is a pressure.
12. (original) The method of claim 10, wherein said physiological parameter is a flow velocity.
13. (original) The method of claim 10, wherein said physiological parameter is a pressure waveform.
14. (amended) The method of claim 10, wherein said first sensing means is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.

15. (amended) The method of claim 10, wherein said second sensing means is selected from the group consisting of piezoelectric, semiconductor, catheter-based, acoustic, and ultrasonic sensors.
16. (cancel)
17. (cancel)
18. (cancel)
19. (cancel)
20. (cancel)
21. (new) The device according to claim 1, wherein said physiological parameter is a pressure waveform.
22. (new) The device according to claim 1, wherein said physiological parameter is a flow velocity.

Respectfully,



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